

# HISTORIC PROPERTY INVENTORY FORM

## IDENTIFICATION SECTION

Field Site No. 216-U-10 OAHP No. Date Recorded 8-Mar-99  
Site Name Historic 216-U-10  
Common U-Pond  
Field Recorder Jim Sharpe  
Owner's Name U.S. Department of Energy, Richland Operations Office  
Address P.O. Box 550  
City/State/Zip Code Richland, WA 99352

### Status

- ☒ Survey/Inventory  
☐ National Register  
☐ State Register  
☐ Determined Eligible  
☐ Determined Not Eligible  
☐ Other (HABS, HAER, NHL)  
☐ Local Designation

### Photography

Photography Neg. No. 74224  
(Roll No. & Frame No.)  
View of  
Date

### Classification

☐ District

### District Status

☒ NR

### Contributing

☒

### District/Thematic Nomination Name

☐ Site

☐ SR

### Non-Contributing

Hanford Site Manhattan Project and Cold War Historic District

☐ Building

☐ LR

☒ Structure

☐ INV

☐ Object

## Description Section

### Materials & Features/Structural Types

Building Type Industry

### Plan

Structural System

No. of Stories

### Roof Type

- ☐ Gable  
☐ Flat  
☐ Monitor  
☐ Gambrel  
☐ Shed  
☐ Hip  
☐ Pyramidal  
☒ Other (specify) Open air pond

### Roof Material

- ☐ Wood Shingle  
☐ Wood Shake  
☐ Composition  
☐ Slate  
☐ Tar/Built-up  
☐ Tile  
☐ Metal (specify)  
☒ Other (specify) Open air pond  
☐ Not visible

### Foundation

- ☐ Log  
☐ Post & Pier  
☐ Stone  
☐ Brick  
☐ Not visible  
☐ Concrete  
☐ Block  
☐ Poured  
☒ Other (specify) Open air pond

### Cladding (exterior Wall Surfaces)

- ☐ Log  
☐ Horizontal Wood Siding  
Rustic/Drop  
Clapboard  
☐ Wood Shingle  
☐ Board and Batten  
☐ Vertical Board  
☐ Asbestos/Asphalt  
☐ Brick  
☐ Stone  
☐ Stucco  
☐ Terra Cotta  
☐ Concrete/Concrete Block  
☐ Vinyl/Aluminum Siding  
☐ Metal (specify)  
☐ Other (specify)

### Integrity

(Include detailed description in  
Description of Physical Appearance)

Changes to plan  
Changes to windows  
Changes to original cladding  
Changes to interior  
Other (specify)

Intact  
Slight  
Moderate  
Extensive

State of Washington, Department of Community Development  
Office of Archaeology and Historic Preservation  
111 21st Avenue Southwest, Post Office Box 48343  
Olympia, Washington 98504-8343 (206)753-4011

## LOCATION SECTION

### Address

City/Town/County/Zip Code

Twp. 12 N Range 25 E

Section 12 1/4 Section NW 1/4 1/4 Sec SE

Tax No./Parcel No.

Quadrangle or map name

UTM References Zone

Plat/Block/Lot

Supplemental Map(s)

Pond

Richland/Benton County/99352

Riverland, WA., 1986

11 Easting 298000 Northing 5157300



### High Styles/Forms (Check one or more of the following)

- ☐ Greek Revival  
☐ Gothic Revival  
☐ Italianate  
☐ Second Empire  
☐ Romanesque Revival  
☐ Stick Style  
☐ Queen Anne  
☐ Shingle Style  
☐ Colonial Revival  
☐ Beaux Arts/Neoclassical  
☐ Chicago/Commercial Style  
☐ American Foursquare  
☐ Mission Revival  
☐ Spanish Colonial Revival/Mediterranean  
☐ Tudor Revival  
☐ Craftsman/Arts & Crafts  
☐ Bungalow  
☐ Prairie Style  
☐ Art Deco/Art Moderne  
☐ Rustic Style  
☐ International Style  
☐ Northwest Style  
☐ Commercial Vernacular  
☐ Residential Vernacular (see below)  
☒ Other (specify) Does not apply

### Vernacular House Types

- ☐ Gable Front  
☐ Gable Front and Wing  
☐ Side Gable  
☐ Cross Gable  
☐ Pyramidal/Hipped  
☒ Other (specify) Does not apply

## NARRATIVE SECTION

### Study Unit Themes (check one or more of the following)

- ☐ Agriculture
- ☐ Architecture/Landscape Architecture
- ☐ Arts
- ☐ Commerce
- ☐ Communications
- ☐ Community Planning/Development

- ☐ Conservation
- ☐ Education
- ☐ Entertainment/Recreation
- ☐ Ethnic Heritage (specify) \_\_\_\_\_
- ☐ Health/Medicine
- ☐ Manufacturing/Industry
- ☐ Military

- ☐ Politics/Government/Law
- ☐ Religion
- ☐ Science & Engineering
- ☐ Social Movements/Organizations
- ☐ Transportation
- ☒ Other (specify) Manhattan Project & Cold War Era
- ☒ Study Unit Sub-Theme(s) Waste Management (Liquid)

### Statement of Significance

- Date of Construction 1943 Architect/Engineer/Builder \_\_\_\_\_
- ☒ In the opinion of the surveyor, this property appears to meet the criteria of the National Register of Historic Places.
- ☒ In the opinion of the surveyor, this property is located in a potential historic district (National and/or local).

The 216-U-10 Pond, also referred to as U-Pond, was located in the 200 West Area of the Hanford Site. It was the first surface disposal system planned for the management of industrial waste waters from separations operations. It is also believed to be the longest used low-level radioactive waste disposal site on earth. The pond was in a natural depression in the southwest corner of the 200 West Area. The pond began operation in 1944 and was designed to receive waste water from various operational facilities. It was enlarged in 1955 and covered an area outside the 200 West area perimeter fence. The pond covered about 30-acres. The facility received effluents from the 284-W Powerhouse; steam condensate from the 231-Z and 234-5 Z buildings via the 216-A-1 Ditch; wastewater from the 2733-W mask cleaning station and 2724-W Laundry via the 216-U-14 Ditch; chemical sewer wastes from the 221-U Building; cooling water from the 224-U Building, 231-Z laboratory wastes via the 216-Z-1 Ditch; 241-U-110 Tank condenser water via the 216-U-14 Ditch; vacuum pump seal water from 291-Z building; Hanford Laboratory waste and PNL operations waste from the 231-Z via 216-U-14 Ditch; steam condensate from the 242-S Evaporator via the 216-U-14 Ditch. The site was stabilized by backfilling in 1985.

It is the conclusion of the U.S. Department of Energy that 216-U-10, through its role in liquid waste management, is eligible for inclusion in the National Register of Historic Places under Criterion A as a contributing property within the Hanford Site Manhattan Project and Cold War Era Historic District.

### Description of Physical Appearance

The 216-U-10 Pond was 3720 feet southwest of 221-U, 532 feet south of 16th Street in the southwest corner of the 200 West Area. The pond was about 30 acres in size. The pond began operation in 1943 and received low level liquid effluent from plutonium processing facilities. It originally consisted of two drainage ditches, 216-U-14 and 216-Z-1, that diverted waste waters to a natural depression. The final system consisted of influent ditches, U-pond, and overflow facilities. Influent ditches transported waste waters to the pond. Originally, the pond was a seepage area at the end of the 216-U-14 and 216-Z-1 Ditches. As water discharges increased, the pond increased in size from a natural depression to a 30 acre pond. In 1965 modifications to the pond and various physical components of the system resulted in changes in discharge sources and volumes released to the pond. The modifications included the three finger like extensions to the east side of the pond to provide increased volume and infiltration capacity. The pond contained no outlets for water and relied on percolation for water loss. It remained active until 1985. It has been deactivated, backfilled, and stabilized.

### Major Bibliographic References

Reference Drawings: H-2-02430, H-2-05962, H-2-32527, H-2-36824, H-2-44510, Sheet 9, and H-2-22511, Sheet 55.

Bechtel Hanford, Inc., 1995, *U Plant Aggregate Area Management Study Technical Baseline Report*. BHI-00174. Richland, Washington.

Rockwell Hanford Operations. 1979. *200 Areas Waste Sites*. RHO-CD-673 Vol. II., Richland, Washington.

Rockwell Hanford Operations. 1981. *216-U-10 Pond and 216-Z-19 Ditch Characterization Studies*. RHO-ST-45, Richland, Washington.

U.S. Department of Energy. 1992. *Hanford Site Waste Management Units Report*. DOE/RL-88-30. Richland, Washington.

General Electric. 1959. *Unconfined Underground Radioactive Waste and Contamination in the 200 Areas-1959*. HW-60807. Richland, Washington.

WHC-EP-0707. 1994. *216-U-10 Pond and 216-Z-19 Ditch Characterization Studies*. WHC-EP-0707, Richland, Washington.